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LIZA S. COMITA

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EDUCATION

- 2006 PhD Department of Plant Biology, University of Georgia, Athens, GA
1999 MA Conservation Biology Program, University of Pennsylvania, Philadelphia, PA
1999 BA Department of Biology, University of Pennsylvania, Philadelphia, PA
Graduated *magna cum laude* with Distinction (Honors) in Biology

PROFESSIONAL EXPERIENCE

- 2021 – present *Professor of Tropical Forest Ecology*, School of the Environment, Yale University (secondary appointment: Department of Ecology and Evolutionary Biology), New Haven, CT
2021 – present *Co-director*, Center for Natural Carbon Capture, Yale University, New Haven, CT
2010 – present *Research Associate*, Smithsonian Tropical Research Institute, Panama
2019 – 2021 *Associate Professor of Tropical Forest Ecology*, School of the Environment, Yale University (secondary appointment: Department of Ecology and Evolutionary Biology), New Haven, CT
2014 – 2019 *Assistant Professor of Tropical Forest Ecology*, School of Forestry and Environmental Studies, Yale University (secondary appointment: Department of Ecology and Evolutionary Biology), New Haven, CT
2014 – 2016 *Adjunct Assistant Professor*, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, OH
2011 – 2014 *Assistant Professor*, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, Columbus, OH
2010 – 2011 *Postdoctoral Research Fellow*, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
2008 – 2010 *Postdoctoral Research Fellow*, Earth Institute, Columbia University, N, NY
2007 – 2008 *Postdoctoral Research Associate*, University of Minnesota, St. Paul, MN

HONORS & AWARDS

- Teaching Excellence Award, Yale School of Forestry & Environmental Studies, 2019
Founders' Prize (outstanding early career researcher award), British Ecological Society, 2017
Postdoctoral Mentoring Prize, Yale University, 2016
Early Career Fellow of the Ecological Society of America, 2015
National Science Foundation Graduate Research Fellowship, 2001 – 2004
Presidential Graduate Fellowship, University of Georgia, 2000 – 2006

Golden Key National Honor Society, University of Pennsylvania, 2001

Palfrey Enrichment Award, University of Georgia Botany Department, 2000

Phi Beta Kappa Society, University of Pennsylvania, 2000

SCIENTIFIC PUBLICATIONS

Publications with advisees: *graduate students, +undergraduates, ^postdocs; **Comita** as last author denotes senior authorship; Google Scholar page: <https://scholar.google.com/citations?user=Sm5a15gAAAAJ&hl=en>

JOURNAL ARTICLES

83. *^Muehleisen, A. J., E. Manzané-Pinzón, B. M. J. Engelbrecht, F. A. Jones, and **L. S. Comita**. *Accepted*. Do experimental drought stress and species' drought sensitivity influence herbivory in tropical tree seedlings? **Biotropica**.
82. ^Álvarez-Cansino, L., **L. S. Comita**, F. A. Jones, E. Manzané-Pinzón, L. Browne, B. M. J. Engelbrecht. *Accepted*. Turgor loss point predicts survival responses to experimental and natural drought in tropical tree seedlings. **Ecology**.
81. ^*Spicer, M. E., H. Venugopalan Nair Radhamoni, M. C. Duguid, S. A. Queenborough, and **L. S. Comita**. 2021. Herbaceous plant diversity in forest ecosystems: Patterns, mechanisms, and threats. **Plant Ecology**. doi.org/10.1007/s11258-021-01202-9
80. ^Browne, L., L. Markesteijn, L., B. M. J. Engelbrecht, F. A. Jones, O. T. Lewis, E. Manzané-Pinzón, S. J. Wright, and **L. S. Comita**. 2021. Increased mortality of tropical tree seedlings during the extreme 2015-16 El Niño. **Global Change Biology** 27: 5043-5053.
79. *Penagos Zuluaga, J. C., H. van der Werff, B. Park, D. Eaton, **L. S. Comita**, S. A. Queenborough, and M. J. Donoghue. 2021. Resolved phylogenetic relationships in the *Ocotea* complex (*Supraocotea*) facilitate phylogenetic classification and studies of character evolution. **American Journal of Botany** 108: 664-679.
78. *Murphy, S. and **L. S. Comita**. 2021. Large mammalian herbivores contribute to conspecific negative density dependence in a temperate forest. **Journal of Ecology** 109: 1194-1209.
77. Davies, S. J., et al. [100+ co-authors, including **L. S. Comita**]. 2021. ForestGEO: Understanding forest diversity and dynamics through a global observatory network. **Biological Conservation** 253: 108907.
76. ^Umaña, M. N., R. Condit, R. Pérez, B. Turner, S. J. Wright, and **L. S. Comita**. 2021. Shifts in taxonomic and functional composition of trees along rainfall and phosphorus gradients in central Panama. **Journal of Ecology** 109: 51-61.
75. *^Muehleisen, A., E. J. Manzané-Pinzón, B. M. J. Engelbrecht, F. A. Jones, and **L. S. Comita**. 2020. Local adaptation to herbivory within tropical tree species along a rainfall gradient. **Ecology** 101: e03151.
74. Du, Y., M. Lingfend, S. A. Queenborough, R. Primack, **L. S. Comita**, A. Hampe, and K. Ma. 2020. Macro-scale variation and environmental predictors of flowering and fruiting phenology in the Chinese angiosperm flora. **Journal of Biogeography** 47: 2303-2314.

73. ^Comita, L. S. and S. M. Stump, S. M. 2020. Natural enemies and the maintenance of tropical tree diversity: recent insights and implications for the future of biodiversity in a changing world. **Annals of the Missouri Botanical Garden** 105: 377-392. [*Invited submission*]
72. *Krishnadas, M., K. Argawal, and L. S. Comita. 2020. Edge effects alter the role of fungi and insects in mediating functional composition and diversity of seedling recruits in a fragmented tropical forest. **Annals of Botany** 126: 1181-1191.
71. ^Stump, S. M. and L. S. Comita. 2020. Differences among species in seed dispersal and conspecific neighbor effects can interact to influence coexistence. **Theoretical Ecology** 13: 551-581.
70. *Penagos Zuluaga, J. C., S. A. Queenborough, and L. S. Comita. 2020. Flowering sex ratios and costs of reproduction in gynodioecious *Ocotea oblonga* (Lauraceae). **Biological Journal of the Linnean Society** 131: 344-355.
69. ^Stump, S. M., N. Beckman, S. Mangan, J. Marden, and L. S. Comita. 2020. Resistance-genes affect how pathogens maintain plant abundance and diversity. **American Naturalist** 196: 472-486.
68. ^Umaña, M. N., E. Manzané-Pinzón, and L. S. Comita. 2020. Long-term dynamics of liana seedlings suggest decelerating increases in liana relative abundance over time. **Journal of Ecology** 108: 460-469.
67. Marchand, P., L. S. Comita, S. J. Wright, R. Condit, S. P. Hubbell, and N. G. Beckman. 2020. Seed-to-seedling transitions exhibit distance-dependent mortality but no strong spacing effects in a Neotropical forest. **Ecology** 101: e02926.
66. ^Eck, J. L., S. M. Stump, C. S. Delavaux, S. A. Mangan, and L. S. Comita. 2019. Evidence of within-species specialization by soil microbes and the implications for plant community diversity. **Proceedings of the National Academy of Sciences** 116: 7371–7376. [Featured in a *PNAS Commentary* and *The Atlantic*]
65. *Krishnadas, M., A. Kumar, and L. S. Comita. 2019. Edge effects reduce α -diversity but not β -diversity during community assembly in a human-modified tropical forest. **Ecological Applications** 29: e01996.
64. Crawford, K., J. Bauer, L. S. Comita, M. Eppinga, D. Johnson, S. Mangan, S. Queenborough, A. Strand, K. Suding, J. Umbanhowar, and J. Bever. 2019. When and where plant-soil feedback may promote plant coexistence: a meta-analysis. **Ecology Letters** 22: 1274–1284.
63. *Krishnadas, M. and L. S. Comita. 2019. Edge effects on seedling diversity are mediated by natural enemy impacts on seedling recruitment but not survival. **Frontiers in Forests & Global Change** 2: 76.
62. ^Krishnadas, M., N. Beckman, J. Penagos-Zuluaga, Y. Zhu, J. Whitacre, J. Wenzel, S. A. Queenborough, and L. S. Comita. 2018. Environment and past land-use together predict functional diversity in a temperate forest. **Ecological Applications** 28: 2142–2152.
61. *Krishnadas, M., R. Bagchi, S. Sridhara, and L. S. Comita. 2018. Weaker plant-enemy interactions decrease tree seedling diversity with edge-effects in a fragmented tropical forest. **Nature Communications** 9: 4523. [Featured on [Mongabay](#)]

60. ^Sugiyama, A., **L. S. Comita**, T. Masaki, R. Condit, and S. Hubbell. 2018. Resolving the paradox of clumped seed dispersal: positive density and distance dependence in a bat-dispersed species. **Ecology** 99: 2583–2591.
59. ^Stump, S. M. and **L. S. Comita**. 2018. Interspecific variation in conspecific negative density dependence can make species less likely to coexist. **Ecology Letters** 21: 1541–1551.
58. ^**Comita**, **L. S.**, M. Uriarte, J. Forero-Montaña, W. J. Kress, N. Swenson, J. Thompson, M. N. Umaña, and J. K. Zimmerman. 2018. Changes in phylogenetic community structure of the seedling layer following hurricane disturbance in a human-impacted tropical forest. **Forests** 9: 556.
57. R ger, N, **L. S. Comita**, R. Condit, D. Purves, B. Rosenbaum, M. Visser, S. J. Wright, and C. Wirth. 2018. Beyond the fast-slow continuum: Demographic dimensions structuring a tropical tree community. **Ecology Letters** 21: 1075–1084.
56. Chen, L., **L. S. Comita**, S. J. Wright, N. G. Swenson, J. K. Zimmerman, X. Mi, Z. Hao, W. Ye, S. P. Hubbell, W. J. Kress, M. Uriarte, J. Thompson, C. J. Nytech, X. Wang, J. Lian, and K. Ma. 2018. Forest tree neighborhoods are structured more by negative conspecific density dependence than by interactions among closely related species. **Ecography** 41: 1114–1123.
55. Weissflog, A., L. Markesteijn, O. T. Lewis, **L. S. Comita**, and B. M. J. Engelbrecht. 2018. Contrasting patterns of insect herbivory and predation pressure across a tropical rainfall gradient. **Biotropica** 50: 302–311.
54. ^Zhu, Y., S. A. Queenborough, R. Condit, S. P. Hubbell, K. Ma, and **L. S. Comita**. 2018. Density-dependent survival varies with species life-history strategy in a tropical forest. **Ecology Letters** 21: 506–515.
53. *Fotis, A. T., S. J. Murphy, R. D. Ricart, M. Krishnadas, J. Whitacre, J. W. Wenzel, S. A. Queenborough, and **L. S. Comita**. 2018. Aboveground biomass is driven by mass-ratio effects and stand structural attributes in a temperate deciduous forest. **Journal of Ecology** 106: 561–570.
52. Visser, M. D., S. Schnitzer, H. C. Muller-Landau, E. Jongejans, H. de Kroon, **L. S. Comita**, S. P. Hubbell, and S. J. Wright. 2018. Tree species vary widely in their tolerance for liana infestation: a case study of differential host response to generalist parasites. **Journal of Ecology** 106: 781–794.
51. *Krishnadas, M. and **L. S. Comita**. 2018. Influence of soil pathogens on early regeneration success of tropical trees varies between forest edge and interior. **Oecologia** 186: 259–268.
50. **Comita**, **L. S.** 2017. How latitude affects biotic interactions. **Science** 356: 1328–1329.
49. *Murphy, S. J., T. Wiegand, and **L. S. Comita**. 2017. Distance-dependent seedling mortality and long-term spacing dynamics in a neotropical forest community. **Ecology Letters** 20: 1469–1478.
48. ^Johnson, D. J., R. Condit, S. P. Hubbell, and **L. S. Comita**. 2017. Abiotic niche partitioning and negative density dependence drive tree seedling survival in a tropical forest. **Proceedings of the Royal Society B** 284: 20172210.

47. *Audino, L., S. Murphy, L. Zambaldi, J. Louzada, and **L. S. Comita**. 2017. Drivers of community assembly in tropical forest restoration sites: role of local environment, landscape and space. **Ecological Applications** 27: 1731–1745.
46. Du, Y., S. A. Queenborough, L. Chen, W. Yunquan, X. Mi, K. Ma, and **L. S. Comita**. 2017. Intraspecific and phylogenetic density-dependent seedling recruitment in a subtropical evergreen forest. **Oecologia** 184: 193–203.
45. Marden, J. H., S. A. Mangan, M. Peterson, E. Wafula, H. W. Fescemyer, J. Der, C. W. dePamphilis, and **L. S. Comita**. 2017. Ecological genomics of tropical trees: how local population size and allelic diversity of resistance genes relate to immune responses, co-susceptibility to pathogens, and negative density dependence. **Molecular Ecology** 26: 2498–2513. [Featured in *Molecular Ecology News & Views*]
44. Bruijning, M., M. D. Visser, H. C. Muller-Landau, S. J. Wright, **L. S. Comita**, S. P. Hubbell, H. de Kroon, and E. Jongejans. 2017. Surviving in a cosexual world: a cost-benefit analysis of dioecy in tropical trees. **American Naturalist** 189: 297–314.
43. Lin, Y. C., **L. S. Comita**, D. J. Johnson, M. R. Chen, and S. H. Wu. 2017. Biotic vs. abiotic drivers of seedling persistence in a tropical karst forest. **Journal of Vegetation Science** 28: 206–217
42. *Murphy, S. J., K. Salpeter, and **L. S. Comita**. 2016. Higher β -diversity observed for herbs over woody plants is driven by stronger habitat filtering in a tropical understory. **Ecology** 97: 2074–2084.
41. Visser, M., M. Bruijning, S. J. Wright, H. C. Muller-Landau, E. Jongejans, **L. S. Comita**, and H. de Kroon. 2016. Functional traits as predictors of vital rates across the life-cycle of tropical trees. **Functional Ecology** 30: 168–180.
40. *+Murphy, S. J., K. Xu, and **L. S. Comita**. 2016. Tree seedling richness, but not neighborhood composition, influences insect herbivory in a temperate deciduous forest community. **Ecology and Evolution** 6: 6310–6319.
39. *Krishnadas, M., A. Kumar, and **L. S. Comita**. 2016. Environmental gradients structure tropical tree assemblages at the regional scale. **Journal of Vegetation Science** 27: 1117–1128.
38. ^Zhu, Y., **L. S. Comita**, S. P. Hubbell, and K. Ma. 2015. Conspecific and phylogenetic density-dependent survival differs across life stages in a tropical forest. **Journal of Ecology** 103: 957–966.
37. *Murphy, S. J., L. D. Audino, J. Whitacre, J. L. Eck, J. W. Wenzel, S. A. Queenborough, and **L. S. Comita**. 2015. Species associations structured by environment and land-use history promote beta-diversity in a temperate forest. **Ecology** 96:705–715.
36. *Calinger, K. M., E. A. Calhoun, H. Chang, J. Whitacre, J. Wenzel, **L. S. Comita**, and S. A. Queenborough. 2015. Historic mining and agriculture as indicators of occurrence and abundance of widespread invasive plant species. **PLOS One** 10: e012816.
35. *+**Comita, L. S.**, S. A. Queenborough, S. Murphy, J. L. Eck, K. Xu, M. Krishnadas, N. Beckman, and Y. Zhu. 2014. Testing predictions of the Janzen–Connell hypothesis: a meta-analysis of experimental evidence for distance and density-dependent seed and seedling survival. **Journal of Ecology** 102: 845–856.

34. *Lin, F., **L. S. Comita**, X. Wang, X. Bai, Z. Yuan, D. Xing, and Z. Hao. 2014. The contribution of understory light availability and biotic neighborhood to seedling survival in secondary versus old-growth temperate forest. **Plant Ecology** 215: 795–807.
33. *Audino, L. D., J. Louzada, and **L. S. Comita**. 2014. Dung beetles as indicators of tropical forest restoration success: Is it possible to recover species and functional diversity? **Biological Conservation** 169: 248–257.
32. Bolker, B. M., B. Gardner, M. Maunder, C. W. Berg, M. Brooks, **L. S. Comita**, E. Crone, S. Cubaynes, T. Davies, P. de Valpine, J. Ford, O. Gimenez, M. Kéry, E. J. Kim, C. Lennert-Cody, A. Magnusson, S. Martell, J. Nash, A. Nielsen, J. Regetz, H. Skaug, and E. Zipkin. 2013. Strategies for fitting nonlinear ecological models in R, AD Model Builder, and BUGS. **Methods in Ecology and Evolution** 4: 501–512.
31. Piao, T., **L. S. Comita**, G. Jin, and J. H. Kim. 2013. Density dependence across multiple life stages in a temperate old-growth forest of northeast China. **Oecologia** 172: 207–217.
30. Stegen, J. C. , A. L. Freestone, T. O. Crist, M. J. Anderson, J. M. Chase, **L. S. Comita**, H. V. Cornell, K. F. Davies, S. P. Harrison, A. H. Hurlbert, B. D. Inouye, N. J. B. Kraft, J. A. Myers, N. J. Sanders, N. G. Swenson, and M. Vellend. 2013. Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. **Global Ecology and Biogeography** 22: 202–212.
29. Muscarella, R., M. Uriarte, J. Forero-Montana, **L. S. Comita**, N. G. Swenson, J. Thompson, C. Nyctch, I. Jonckheere, and J. K. Zimmerman. 2013. Life-history trade-offs during the seed-to-seedling transition in a subtropical wet forest community. **Journal of Ecology** 101: 171–182.
28. Lin, L., **L. S. Comita**, Z. Zheng, and M. Cao. 2012. Seasonal differentiation in density-dependent seedling survival in a tropical rainforest. **Journal of Ecology** 100: 905–914.
27. Kraft, N. J. B., N. J. Sanders, J. C. Stegen, M. J. Anderson, T. O. Crist, H. V. Cornell, M. Vellend, J. M. Chase, **L. S. Comita**, K. F. Davies, A. L. Freestone, S. P. Harrison, B. D. Inouye, J. A. Myers and N. G. Swenson. 2012. Response to comments on ‘Disentangling the drivers of β diversity along latitudinal and elevational gradients’. **Science** 335: 1573.
26. Wang, X., **L. S. Comita**, Z. Hao, S. J. Davies, J. Ye, F. Lin, and Z. Yuan. 2012. Local-scale drivers of tree survival in a temperate forest. **PLoS ONE** 7(2): e29469. doi:10.1371/journal.pone.0029469
25. Uriarte, M., J. S. Clark, J. K. Zimmerman, **L. S. Comita**, J. Forero-Montaña, and J. Thompson. 2012. Multi-dimensional tradeoffs in species responses to disturbance: implications for diversity in a subtropical forest. **Ecology** 93:191–205.
24. Kraft, N. J. B., **L. S. Comita**, J. M. Chase, N. J. Sanders, N. G. Swenson, T. O. Crist, J. C. Stegen, M. Vellend, B. Boyle, M. J. Anderson, H. V. Cornell, K. F. Davies, A. L. Freestone, B. D. Inouye, S. P. Harrison, and J. A. Myers. 2011. Disentangling the drivers of beta-diversity along latitudinal and elevational gradients. **Science** 333:1755–1758.
23. Anderson M. J., T. O. Crist, J. M. Chase, M. Vellend, B. D. Inouye, A. L. Freestone, N. J. Sanders, H. V. Cornell, **L. S. Comita**, K. F. Davies, S. P. Harrison, N. J. B. Kraft, J. C. Stegen, and N. G. Swenson. 2011. Navigating the multiple meanings of β diversity: a roadmap for the practicing ecologist. **Ecology Letters** 14: 19–28. [*Selected as a recommended article by [Faculty of 1000](#)*]

22. Winowiecki, L., S. Smukler, K. Shirley, R. Remans, G. Peltier, E. Lothes, E. King, **L. S. Comita**, S. Baptista, and L. Alkema. 2011. Tools for enhancing interdisciplinary communication. **Sustainability: Science, Practice, & Policy** 7: 74–80.
21. Kanagaraj, R., T. Wiegand, **L. S. Comita**, and A. Huth. 2011. Tropical tree species assemblages in topographical habitats change in time and with life stage. **Journal of Ecology** 99: 1441–1452.
20. ⁺Goldsmith, G. R., **L. S. Comita**, and S. C. Chua. 2011. Evidence for arrested succession within a tropical forest fragment in Singapore. **Journal of Tropical Ecology** 27: 323–326.
19. Chuyong, G. B., D. Kenfack, K. E. Harms, D. W. Thomas, R. Condit, and **L. S. Comita**. 2011. Habitat specificity and diversity of tree species in an African wet tropical forest. **Plant Ecology** 212:1363–1374.
18. **Comita, L. S.**, H. C. Muller-Landau, S. Aguilar and S. P. Hubbell. 2010. Asymmetric density dependence shapes species abundance in a tropical tree community. **Science** 329: 330–332. [*Featured in [Nature News and Views](#) and [Science News](#)*]
17. **Comita, L. S.**, J. Thompson, M. Uriarte, I. Jonckheere, C. D. Canham, and J. Zimmerman. 2010. Interactive effects of land use history and natural disturbance on seedling dynamics in a subtropical forest. **Ecological Applications** 20: 1270–1284.
16. Uriarte, M., N. G. Swenson, R. L. Chazdon, **L. S. Comita**, W. J. Kress, D. Erickson, J. Forero-Montaña, J. K. Zimmerman, and J. Thompson. 2010. Trait similarity, shared ancestry and the structure of neighbourhood interactions in a subtropical wet forest: implications for community assembly. **Ecology Letters** 13: 1503–1514.
15. Jones, F. A. and **L. S. Comita**. 2010. Density dependent pre-dispersal seed predation and fruit set in a tropical tree. **Oikos** 119: 1841–1847.
14. Zimmerman, J., **L. S. Comita**, M. Uriarte, N. Brokaw, and J. Thompson. 2010. Patch dynamics and community metastability of a tropical forest: Compound effects of natural disturbance and human land use. **Landscape Ecology** 25: 1099–1111.
13. Chen, L., X. Mi, **L. S. Comita**, L. Zhang, H. Ren, and K. Ma. 2010. Community-level consequences of density dependence and habitat association in a subtropical broad-leaved forest. **Ecology Letters** 13: 695–704. [*Selected as a recommended article by [Faculty of 1000](#)*]
12. **Comita, L. S.**, M. Uriarte, J. Thompson, I. Jonckheere, C. D. Canham, and J. Zimmerman. 2009. Abiotic and biotic neighborhood determinants of seedling survival in a hurricane-impacted forest. **Journal of Ecology** 97: 1346–1359.
11. **Comita, L. S.** and B. M. J. Engelbrecht. 2009. Seasonal and spatial variation in water availability drive habitat associations in a tropical forest. **Ecology** 90: 2755–2765.
10. **Comita, L. S.** and S. P. Hubbell. 2009. Local neighborhood and species' shade tolerance influence survival in a diverse seedling bank. **Ecology** 90: 328–334.
9. **Comita, L. S.**, ⁺G. R. Goldsmith, and S. P. Hubbell. 2009. Intensive research activity alters short-term seedling dynamics in a tropical forest. **Ecological Research** 24: 225–230.

8. Jones, F. A. and **L. S. Comita**. 2008. Neighborhood density and genetic relatedness interact to determine fruit set and abortion rates in a tropical tree. **Proceedings of the Royal Society B** 275: 2759–2767.
7. ⁺**Comita, L. S.** and G. R. Goldsmith. 2008. Impact of research trails on seedling dynamics in a tropical forest. **Biotropica** 40: 251–254.
6. Metz, M. R., **L. S. Comita**, Y. Chen, N. Norden, R. Condit, S. P. Hubbell, I-F. Sun, N. S. Md. Noor, and S. J. Wright. 2008. Temporal and spatial variability in seedling dynamics: a cross-site comparison in four lowland tropical forests. **Journal of Tropical Ecology** 24: 9–18.
5. **Comita, L. S.**, R. Condit, and S. P. Hubbell. 2007. Developmental changes in habitat associations of tropical trees. **Journal of Ecology** 95: 482–492.
4. Engelbrecht, B. M. J., **L. S. Comita**, R. Condit, S. P. Hubbell, T. Kursar, and M. Tyree. 2007. Drought sensitivity shapes species distribution patterns in tropical forests. **Nature** 447: 80–82.
3. **Comita, L. S.**, S. Aguilar, R. Perez, S. Lao, and S. P. Hubbell. 2007. Patterns of woody plant species abundance and diversity in the seedling layer of a tropical forest. **Journal of Vegetation Science** 18: 163–174.
2. ⁺Goldsmith, G. R., **L. S. Comita**, L. Morefield, R. Condit, and S. P. Hubbell. 2006. Researcher impacts on seedling community structure in a permanent study plot. **Forest Ecology and Management** 234: 34–39.
1. Wills, C., K. Harms, R. Condit, D. King, J. Thompson, F. He, H. Muller-Landau, P. Ashton, E. Losos, **L. S. Comita**, et al. 2006. Nonrandom processes maintain diversity in tropical forests. **Science** 27: 527–531.

BOOK CHAPTERS

1. **Comita, L. S.** and B. M. J. Engelbrecht. 2014. Drought as a driver of tropical tree species regeneration dynamics and distribution patterns. Pp 261–308 in *Forests and Global Change*, D. A. Coomes, D. R. F. P. Burslem and W. D. Simonson, eds. Cambridge University Press, Cambridge, UK.

RESEARCH GRANTS

EXTERNAL AWARDS

- National Science Foundation, Division of Environmental Biology, 2022 – 2023, *Workshop: Diversity and dynamics of herbaceous plant communities in forest ecosystems* (co-PI; \$ 46,590)
- National Science Foundation, Faculty Early Career Development Program, 2019 – 2024, *CAREER: Drivers of tropical tree seedling dynamics and species coexistence along environmental gradients* (sole PI; \$619,999)
- National Science Foundation, Division of Environmental Biology, 2015 – 2019, *Collaborative Research: Genetic diversity, resistance genes, and negative density dependence in tropical tree seedling dynamics* (PI; \$158,545; project total - \$840,457)
- National Science Foundation, Division of Environmental Biology, 2013 – 2018, *Collaborative Research: Intraspecific variation in drought responses of tropical tree seedlings -*

consequences for species distributions under climate change (PI; \$466,025; project total - \$708,023)

National Science Foundation, Long Term Research in Environmental Biology, 2012 – 2018, *LTREB Renewal: Long-Term studies of seedling and small sapling community dynamics in a Neotropical forest* (PI; \$449,841)

National Science Foundation, Division of Environmental Biology, 2016 – 2018, *RAPID: The effect of an extreme El Niño event on tropical forest seedling regeneration* (co-PI; project total - \$165,000 to Oregon State University and Smithsonian)

National Science Foundation, Division of Environmental Biology, 2016 – 2018, *Dissertation Research: Does genetic similarity of trees explain beta diversity of soil microbes and the strength of negative plant-soil feedbacks in a tropical tree population?* (PI, with PhD student Jenalle Eck; \$19,960)

National Science Foundation, Dimensions of Biodiversity, 2016 – 2017, *International Research Coordination Network: Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change* (co-PI; project total - \$296,240 to Smithsonian)

National Science Foundation, Division of Environmental Biology, 2011 – 2013, *Collaborative Research: Genetic diversity, resistance genes, and negative density dependence in tropical tree seedling dynamics* (PI; \$50,000; project total - \$200,000)

National Science Foundation, Research Experience for Undergraduates (REU), 2013, Supplement to *LTREB Renewal: Long-Term studies of seedling and small sapling community dynamics in a Neotropical forest* (PI; \$7500)

National Science Foundation, Research Experience for Undergraduates (REU), 2013, Supplement to *Genetic diversity, resistance genes, and negative density dependence in tropical tree seedling dynamics* (PI; \$7500)

National Science Foundation, Dimensions of Biodiversity, 2010 – 2015, *International Research Coordination Network: Diversity and Forest Change: Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities* (Senior personnel and co-author; project total - \$631,640 to Smithsonian)

National Science Foundation, Long Term Research in Environmental Biology, 2007 – 2012, *Long-term studies of seedling community dynamics in a Neotropical forest* (co-author with PI Dr. S. P. Hubbell; \$446,000)

Smithsonian Center for Tropical Forest Science Research Grant, 2007 – 2009, *Quantifying seedling responses to key resources as a basis for understanding tropical tree distributions and reforestation* (co-PI with Drs. B. M. J. Engelbrecht, J. Dalling, and B. Turner; \$15,000)

Smithsonian Center for Tropical Forest Science Research Grant, 2002 – 2004, *Linking species drought resistance with habitat associations* (co-PI with Dr. B. M. J. Engelbrecht; \$11,000)

INTERNAL AWARDS

Forest B. H. and Elizabeth D. W. Brown Fund, Yale-endowed funding to support a postdoctoral fellow, 2021 (PI; \$50,629)

Childs Family Forestry Research Fund, 2020, *Panama's tree restoration efforts: Lessons learned from 10 years of training and project implementation in the Azuero Peninsula*, (co-PI, \$12,500)

Director's Award, Yale MacMillan Center for International and Area Studies, 2019 (PI; \$10,000)

Forest B. H. and Elizabeth D. W. Brown Fund, Yale-endowed funding to support a postdoctoral fellow, 2019 (PI; \$50,004)

Yale-Smithsonian Partnerships, graduate student internship funding, Summer 2019, *Monitoring New England forests in a changing world – establishment of a Smithsonian ForestGEO plot at the Yale-Myers Forest* (PI, with Drs. Duguid, Queenborough, Bradford, Ashton, Davies, McMahon; \$6,800)

University of Georgia Botany Department Grant, 2001, *The influence of understory light levels on tropical tree seedling distribution and demography* (PI; \$1000)

INVITED SEMINARS AND TALKS

- 2021 Czech Academy of Sciences, Department of Ecology, Kokomo Seminar Series
- 2021 Chinese Academy of Sciences, Institute of Botany, CForBio Seminar Series
- 2020 Yale University, School of the Environment, Research Seminar Series
- 2020 Oregon State University, Ecology, Evolution & Conservation Biology Seminar Series
- 2019 Missouri Botanical Garden, *66th Annual Fall Symposium: The origins and maintenance of Neotropical biodiversity*, St. Louis, Missouri
- 2019 Yale University, School of Forestry & Environmental Studies, *Faculty Up-Goer5 Talks* (science talks restricted to only the 1000 most commonly used words), F&ES Annual Research Conference
- 2018 Yale University, School of Forestry & Environmental Studies, Research Seminar Series
- 2018 Bard College, Biology Seminar Series
- 2018 Symposium on '*Tropical tree life-history strategies: causes and consequences of demographic diversity*', Association for Tropical Biology and Conservation annual meeting, Kuching, Malaysia
- 2018 University of Montana, Division of Biological Sciences, Organismal Biology, Ecology, and Evolution seminar
- 2018 Yale University, Biological Anthropology 'Brown Beer' Colloquium
- 2016 Brown University, Department of Ecology and Evolutionary Biology
- 2016 Japan Society for the Promotion of Science, '*Biology of Biodiversity: Commemorative Symposium for the 32nd International Prize for Biology*', Tokyo, Japan
- 2016 National Centre for Biological Sciences, Bangalore, India
- 2016 Organized Oral Session on '*Contributions of Seasonal & Interannual Variability in Reproduction to Tropical Forest Diversity*', Ecological Society of America annual meeting, Fort Lauderdale
- 2016 Harvard University, Harvard Herbaria
- 2015 Yale Institute for Biospheric Studies
- 2014 Washington University - St. Louis, Department of Biology (*annual student-invited speaker*)
- 2013 University of Connecticut, Department of Ecology and Evolutionary Biology
- 2013 Michigan State University, Department of Forestry

- 2013 The Ohio State University, Department of Plant Pathology
- 2013 The Ohio State University, Environmental Sciences Graduate Program Seminar
- 2012 Yale University, School of Forestry and Environmental Studies
- 2012 Yale University, Department of Ecology and Evolutionary Biology
- 2012 Indiana University, Department of Biology, Evolution, Ecology & Behavior seminar series
- 2011 *Plenary speaker*, British Ecological Society Symposium on Forests and Climate Change, University of Cambridge, UK
- 2011 Climate Change and Forest Biodiversity Conservation symposium, Chinese Academy of Sciences
- 2011 University of Nottingham, School of Biology, UK
- 2011 Center for Tropical Forest Science symposium, Smithsonian Tropical Research Institute, Panama
- 2010 University of California, Los Angeles, Ecology and Evolutionary Biology Department
- 2010 Indian Institute of Sciences, Bangalore, Centre for Ecological Sciences
- 2010 University of Massachusetts, Boston, Department of Biology
- 2010 Case Western Reserve University, Department of Biology
- 2009 The Ohio State University, Department of Evolution, Ecology, and Organismal Biology
- 2009 Florida International University, Department of Biological Sciences
- 2009 Case Western Reserve University, Department of Biology
- 2008 Columbia University, Center for Environmental Research and Conservation
- 2008 Lamont-Doherty Earth Observatory, Division of Biology and Paleo Environment
- 2008 Queens College-City University of New York, Biology Department
- 2007 University of Minnesota, Department of Ecology, Evolution, and Behavior
- 2007 University of Wisconsin-Green Bay, Cofrin Center for Biodiversity
- 2007 Symposium on '*Ecological Theory and Tropical Ecology: Bridging the Gap for Mutual Gain*', Association for Tropical Biology and Conservation annual meeting, Morelia, Mexico
- 2006 Annual Science Symposium, Smithsonian Tropical Research Institute, Panama

CONTRIBUTED ORAL PRESENTATIONS (as presenter)

- Comita, L. S. 2018. Natural enemies and the maintenance of tropical tree diversity. Sussex Plant Biology Symposium, Connecticut Agricultural Experiment Station, New Haven, CT
- Comita, L. S., B. M. J. Engelbrecht, L. Markesteijn, E. J. Manzano, S. J. Wright, and F. A. Jones. 2017. Effects of the 2015-2016 El Niño on seedling dynamics across a rainfall gradient in central Panama. Association for Tropical Biology and Conservation annual meeting, Merida, Mexico
- Comita, L. S. and D. J. Johnson. 2015. Spatial and temporal variation in density-dependent seedling survival in a lowland Neotropical forest. Association for Tropical Biology and Conservation annual meeting, Honolulu, HI

- Zhu, Y., L. S. Comita, S. P. Hubbell, and K. Ma. 2015. Conspecific and phylogenetic density dependent survival differs across life stages in a tropical forest. Ecological Society of America annual meeting, Baltimore, MD
- Comita, L. S. and the Center for Tropical Forest Science Working Group. 2012. Does variation in the strength of negative density dependence explain differences in species diversity among tropical forests? Ecological Society of America annual meeting, Portland, OR
- Comita, L. S., M. Uriarte, N. Swenson, J. Kress, D. Erickson, J. Thompson, J. Forero-Montana, and J. K. Zimmerman. 2012. Disturbance impacts phylogenetic community structure of the seedling layer in a tropical forest. British Ecological Society annual meeting, Birmingham, UK
- Comita, L. S., H. C. Muller-Landau, S. Aguilar, and S. P. Hubbell. 2010. Asymmetric density dependence shapes species abundance in a tropical tree community. Association for Tropical Biology and Conservation annual meeting, Bali, Indonesia
- Comita, L. S., M. Uriarte, J. Thompson, I. Jonckheere, and J. K. Zimmerman. 2009. Abiotic and biotic drivers of seedling survival in a hurricane-impacted tropical forest. Ecological Society of America annual meeting, Albuquerque, NM
- Comita, L. S. and B. Engelbrecht. 2009. Seasonal & spatial variation in water availability drive habitat associations in a tropical forest. Association for Tropical Biology and Conservation annual meeting, Marburg, Germany
- Comita, L. S., M. Uriarte, H. Muller-Landau, J. Thompson, J. Zimmerman, and S. P. Hubbell. 2008. Seeing the forest for the species: Cross-site comparisons of tropical forest dynamics using hierarchical Bayesian models. Association for Tropical Biology and Conservation annual meeting, Paramaribo, Suriname
- Comita, L. S. and S. P. Hubbell. 2007. Biotic and abiotic neighborhood effects on seedling survival in a tropical forest. Ecological Society of America annual meeting, San Jose, CA
- Comita, L. S. and S. P. Hubbell. 2005. Density dependent growth of established seedlings in a Panamanian forest. Association for Tropical Biology and Conservation annual meeting, Uberlandia, Brazil.
- Comita, L. S., R. Condit, and S. P. Hubbell. 2004. Seedling and adult habitat associations in a Neotropical tree community. Association for Tropical Biology and Conservation annual meeting, Miami, FL
- Comita, L. S. and S. P. Hubbell. 2003. Community level patterns of seedling mortality in a tropical tree community. Ecological Society of America annual meeting, Savannah, GA
- Comita, L. S. and S. P. Hubbell. 2003. Density dependent juvenile mortality and recruitment in a Neotropical tree community. Association for Tropical Biology and Conservation annual meeting, Aberdeen, Scotland

INVITED WORKING GROUP PARTICIPANT

Theory of plant-soil feedback: phenomenological, mechanistic and spatial models, 2013–2015, National Institute for Mathematical and Biological Synthesis, Knoxville, TN

Bridging the gap between theoretical community ecology and conservation, 2014, Tansley Working Group, Silwood Park, Imperial College, UK

What have we learned about species coexistence in tree communities from the global stem-mapped forest plots, 2013, National Center for Ecological Analysis & Synthesis, Santa Barbara, CA
Evaluating and improving open source software for nonlinear statistical modeling in ecology, 2011, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
A synthesis of patterns, analyses, and mechanisms of beta-diversity along ecological gradients, 2010, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA

TEACHING EXPERIENCE

COURSES TAUGHT AS LEAD INSTRUCTOR - YALE UNIVERSITY

Ecology & Conservation of Tropical Forests, Graduate lecture and discussion course, Fall 2015, 2017–2019
Tropical Field Ecology, Graduate field trip course, Spring 2015, 2016, 2018–2020, 2022
Pests, Pathogens, and Parasites in Natural and Managed Systems, Graduate seminar course, Fall 2015 & Spring 2018
Pests, Parasites, and Pathogens: An Ecological Perspective, Undergraduate lecture & discussion (seminar) course, Spring 2019 [co-taught with doctoral student as part of the Associates in Teaching training program of the Poorvu Center for Teaching and Learning]

COURSES TAUGHT AS LEAD INSTRUCTOR - OHIO STATE UNIVERSITY

Introduction to Ecology (undergraduate lecture & lab), Fall 2012 & 2013
Analysis of Plant Inventory Data (graduate seminar), Fall 2013
Ecological Methods I (upper-level undergraduate field course), Spring 2013
Species Coexistence in Plant Communities (graduate seminar), Fall 2012
Tropical Field Ecology (undergraduate study abroad course), Spring 2012

OTHER TEACHING

Guest lecturer (2x), Forest Dynamics (graduate lecture), Yale University, School of the Environment, Fall 2020 & Fall 2021
Faculty lecturer, videotaped lectures for the Online Certificate Program on 'Tropical Forest Landscapes - Conservation, Restoration & Sustainable Use', Yale F&ES and the Environmental Leadership & Training Initiative (ELTI), 2019
Faculty presenter, Amazon Fires Teach-in (student-organized event), Yale F&ES, September 2019
Guest panelist, Survival Skills for Doctoral Students (graduate seminar), Yale F&ES, Spring 2018 & Spring 2019
Guest lecturer, Plant Ecology (undergraduate/graduate lecture), Yale University, Ecology and Evolutionary Biology Department, Spring 2018 & Spring 2021
Guest lecturer, General Ecology (undergraduate lecture), Yale University, Ecology and Evolutionary Biology Department, Fall 2015

Guest speaker, graduate seminar on Publishing in High Impact Journals, Ohio State University, Fall 2013

Guest lecturer (2x), Community and Ecosystem Ecology (undergraduate/graduate lecture), Ohio State University, Spring 2013

Instructor, Analysis of density dependent plant performance in R (short course), Chinese Academy of Sciences, Beijing, China, 2010

Instructor, Introduction to R (short course), Indian Institute of Science, Bangalore, India, 2010

Teaching assistant, Likelihood Methods in Ecology (short course), Cary Institute, Milbrook, NY, 2009

Guest Lecturer, Yale University, Tropical Forest Ecology, New Haven, CT, 2008

Guest Lecturer, University of Minnesota, Bayesian Statistics Seminar, St. Paul, MN, 2007

Guest Lecturer, University of Quebec, Graduate Tropical Forest Ecology, Panama, 2007

Guest Lecturer, School for International Training, Undergraduate Program, Panama, 2006, 2007

Field Problem Leader, University of Panama/STRI Field Ecology Course, Panama, 2006

Guest Lecturer, McGill University/STRI, Tropical Ecology Graduate Program, Panama, 2006

Teaching Assistant, University of Georgia, Tropical Ecology Study Abroad Program, Costa Rica, Fall 2004

Guest Lecturer, Michigan State University, Tropical Biodiversity Program, Panama, 2004

Teaching Assistant, Tropical Ecology and Conservation, University of Georgia, Athens, GA, Fall 2002

ACADEMIC ADVISING - CURRENT

DOCTORAL STUDENTS

Alma Trujillo Miranda

Akshay Surendra

Megan Sullivan

Harikrishnan Venugopalan Nair Radhamoni

POSTDOCTORAL RESEARCHERS

Luke Browne

Sergio Estrada-Villegas

Michelle Spicer

Jason Vleminckx

DOCTORAL COMMITTEES

David Woodbury (Yale School of the Environment)

Arielle Biro (Yale, Ecology and Evolutionary Biology)

Valerie Milici (University of Connecticut)

MASTERS COMMITTEES

Shashikala Madhubhani (MPhil, Department. Science & Technology, Uva Wellassa University-Badulla; Sri Lanka)

Mahesha Lakmali (MPhil, Department of Science & Technology, Uva Wellassa University-Badulla; Sri Lanka)

ACADEMIC ADVISING - PAST

FORMER GRADUATE STUDENTS

Juan Carlos Penagos Zuluaga (PhD 2020; current position: Cullman Postdoctoral Fellow, New York Botanical Garden and Yale University)

Andrew Muehleisen (PhD 2020; current position: Postdoctoral Research Associate, Data Science Initiative and the Institute of Ecology and Evolution, University of Oregon)

Meghna Krishnadas (PhD 2018; current position: Project Scientist, Laboratory for Conservation of Endangered Species, Centre for Cellular and Molecular Biology, Hyderabad, India)

Stephen Murphy (PhD 2018; current position: Postdoctoral Fellow, Center for Conservation and Sustainable Development, Missouri Botanical Garden)

Jenalle Eck (PhD 2017; current position: Postdoctoral Researcher, Department of Evolutionary Biology and Environmental Studies, University of Zurich)

Kara Salpeter (MSc 2013; current position: Attorney, Nathan & Nathan Law Firm, Nashville, TN)

FORMER POSTDOCTORAL RESEARCHERS

Maria Natalia Umaña (current position: Assistant Professor, Department of Ecology and Evolutionary Biology, University of Michigan)

Anna Sugiyama (current position: Assistant Professor, Department of Botany, University of Hawai'i at Mānoa)

Simon Stump (current position: Independent researcher)

Yan Zhu (current position: Associate Professor, Institute of Botany, Chinese Academy of Sciences)

Eric Manzané Pinzón (current position: Associate Professor, School of Forestry Engineering, Universidad Tecnológica de Panama)

Daniel Johnson (current position: Assistant Professor, School of Forest Resources and Conservation, University of Florida)

Noelle Beckman (current position: Assistant Professor, Department of Biology, Utah State University)

FORMER DOCTORAL COMMITTEES

Madelon Case (Yale, Ecology and Evolutionary Biology), Jane Widness (Yale, Biological Anthropology), Emily Briggs (Yale, Joint Biological Anthropology-F&ES), John Burley (Brown University), Benedicte Bachelot (Columbia University), Andrew Yoak (Ohio State University), Corrie Pieterse (Ohio State University), Cassie May (Ohio State University)

FORMER MASTERS COMMITTEES

AJ Hudson (MESc, Yale F&ES)

FORMER UNDERGRADUATE RESEARCH ADVISEES

NSF REU Advisor: Megan Sullivan (Ohio State University), Lisa Miller (Ohio State University),
Gregory Goldsmith (University of Georgia/Bowdoin College)

Senior Thesis Advisor: Chau Pham (Yale EEB), Kaiyang Xu (Ohio State University), Megan
Sullivan (Ohio State University)

Senior Thesis Committee Member: Andrew Muehleisen (Ohio State University)

FORMER VISITING SCHOLARS

Iveren Abiem (University of Jos, Nigeria & University of Canterbury, New Zealand), Zhu Yan
(Chinese Academy of Sciences, Beijing), Yanjun Du (Chinese Academy of Sciences, Beijing),
Livia Audino (Universidade Federal de Lavras, Brazil), Fei Lin (Chinese Academy of Sciences,
Shenyang)

EXTERNAL EXAMINER/DISSERTATION READER

Piotr Szefer (University of South Bohemia, Czech Republic), Henry Glick (Yale YSE), Peter
Umunay (Yale F&ES), Elaine Hooper (Yale F&ES), Kevin McClean (Yale F&ES), Sandeep Pulla
(Indian Institute of Sciences, Bangalore), Stefan Kupers (University of Leipzig, Germany)

UNIVERSITY/SCHOOL SERVICE

YALE UNIVERSITY

Inaugural co-director, Yale Center for Natural Carbon Capture, 2021 – present

Planetary Solutions committee, Yale University, 2021 – present

Lower Science Hill Space Planning committee, Yale University, 2021 – present

Promotion committee member for Full Professor, Yale School of the Environment, Summer/Fall
2021

Co-chair, OneYSE (community-building) committee, Yale School of the Environment, 2019 –
present

Faculty Mentor, Women in Science at Yale (WISAY) mentoring program, 2014 – present (career
mentor to 25 female postdocs to date from multiple departments/schools at Yale; awarded the
2016 Yale Postdoctoral Mentoring Prize for this service)

Board Member, Cullman Yale School of the Environment - New York Botanical Garden Joint
Doctoral Program, 2020 – present

Faculty Affiliate, Yale Institute of Biospheric Studies (YIBS), Fall 2019 – present

Board member & proposal reviewer, Tropical Resources Institute, Yale School of the Environment,
2015 – present

Promotion committee member for Associate Professor, Yale School of the Environment, Spring
2021

Hutchinson Postdoctoral Fellowship selection committee, Yale Institute of Biospheric Studies (YIBS), February 2020

Panel and Discussion Moderator, International Society of Tropical Foresters annual meeting (student-organized), Yale School of Forestry & Environmental Studies, January 2020

Governance committee, Yale School of Forestry & Environmental Studies, 2019 – 2020

Advisory committee for Postdoctoral Affairs, Yale University, 2017 – 2019

Hiring Priorities committee, Yale School of Forestry & Environmental Studies, Summer 2019

Review committee for reappointment of Senior Research Scientist, Yale School of Forestry & Environmental Studies, Fall 2019

Panelist, *First Time in the Field* (advice for students starting field research), Yale School of Forestry & Environmental Studies, May 2019

Panel Moderator, *Incorporating Environmental Justice into Teaching*, Yale School of Forestry & Environmental Studies, May 2019

Judge and Session Chair, Research Day, Yale School of Forestry & Environmental Studies, April 2019

Sabin Fellowship Selection committee, Yale School of Forestry & Environmental Studies, Spring 2019

Discussion Moderator, International Society of Tropical Foresters annual meeting (student-organized), Yale School of Forestry & Environmental Studies, January 2019

Review committee for reappointment of Associate Research Scientist, Yale School of Forestry & Environmental Studies, Fall 2018

Masters' committee member, Yale School of Forestry & Environmental Studies, 2015 – 16 & 2017 – 2018

Diversity committee, Yale School of Forestry & Environmental Studies, 2016 – 2017

Faculty Mentor to Pinchot Fellow, Yale School of Forestry & Environmental Studies, 2016 – 2017

Panelist, *Mentoring and Inclusion Discussion*, New Faculty Orientation, Yale University, August 2016

Search committee for Dean of Yale School of Forestry & Environmental Studies, 2015 – 2016

Search committee, Pinchot Fellowship, Yale School of Forestry & Environmental Studies, 2015 – 2016

Panelist, *Careers in Conservation Panel Discussion*, Society for Conservation Biology, Yale University Chapter, April 2015

Panel Moderator, *Getting More Women in Science*, Yale School of Forestry & Environmental Studies, February 2015

Judge, Yale International Society of Tropical Foresters Innovation Prize competition, December 2014

OHIO STATE UNIVERSITY

Seminar Committee member, Department of Evolution, Ecology & Organismal Biology, The Ohio State University, 2013 – 2014

Graduate Admissions Committee member, Department of Evolution, Ecology & Organismal Biology, The Ohio State University, 2013 – 2014

Advisory Committee member (elected), Department of Evolution, Ecology & Organismal Biology,
The Ohio State University, 2012 – 2013

Graduate Studies Committee member, Department of Evolution, Ecology & Organismal Biology,
The Ohio State University, 2012 – 2013

Judge, Denman Undergraduate Research Forum, The Ohio State University, 2012

JOURNAL ACTIVITIES

EDITOR

Subject Editor, *Ecology Letters* (2015 – present)

Subject Editor, *Biotropica* (2014 – 2020)

Guest Editor, *Frontiers in Forests and Global Change*, special issue on *Tropical Plant-Pathogen Interactions in a Changing World* (2019)

JOURNAL REVIEWER (2006 – present)

Nature, *Science*, *Proceeding of the National Academy of Sciences*, *Nature Ecology and Evolution*, *Nature Plants*, *Proceedings of the Royal Society B*, *American Naturalist*, *Ecology Letters*, *Ecology*, *Journal of Ecology*, *Journal of Applied Ecology*, *Functional Ecology*, *Ecosystems*, *Frontiers in Ecology & the Environment*, *New Phytologist*, *Oikos*, *Oecologia*, *Global Change Biology*, *Frontiers in Biogeography*, *PloS ONE*, *Ecography*, *Methods in Ecology and Evolution*, *Forest Ecology and Management*, *Journal of Vegetation Science*, *American Journal of Botany*, *Basic and Applied Ecology*, *Plant Ecology*, *Biotropica*, *Journal of Tropical Ecology*, *Caribbean Journal of Science*, *Journal of Environmental Management*, *Plant and Soil*, *Journal of Forest Research*, *Perspectives in Ecology and Conservation*, *Communications Biology*

OTHER PROFESSIONAL SERVICE

Moderator, *The Janzen-Connell Hypothesis at 50: where are we?*, Annual meeting of the Association for Tropical Biology and Conservation (virtual), 2021

Selection Committee, Tropical Botany Award, Garden Club of America, 2021

Moderator, Biotic Interactions in Tropical Systems, ATBC Webinar Series on Tropical Biology & Conservation, 2020

Proposal Review Committee, Fellowship in Plant Science Research, Oak Spring Garden Foundation, 2020

Council member (elected) & co-chair of the Awards Committee, Association for Tropical Biology and Conservation, 2017 – 2019

Proposal Review Panel, National Science Foundation (Division of Environmental Biology), 2019

Ad hoc proposal reviewer, National Science Foundation (Division of Environmental Biology), 2005, 2006, 2009, 2011, 2012, 2013, 2018, 2019

Symposium co-organizer, *Tropical plant-pathogen interactions in a changing world*, Annual meeting of the Association for Tropical Biology and Conservation, Kuching, Malaysia, 2018

Ad hoc proposal reviewer, Natural Sciences & Engineering Research Council of Canada (NSERC), Discovery Grant competition, 2018

Ad hoc proposal reviewer, Czech Science Foundation, 2009, 2018

Proposal Review Panel, U.S. Department of Energy, Terrestrial Ecosystem Sciences program (Critical Ecosystems - Tropics), 2016

Symposium co-organizer, *Intraspecific variation in tropical trees – implications for tropical forest responses to global change*, Annual meeting of the Association for Tropical Biology and Conservation, Montpellier, France, 2016

Working Group Leader and Mentor, Smithsonian Institute Forest Global Earth Observatories, Annual Analytical Workshops, 2009 – 2017

Preliminary Proposal Review Panel, National Science Foundation (Division of Environmental Biology), 2013

Associate Faculty Member, Faculty of 1000 Biology, 2009 – 2010

Symposium co-organizer, *Climate effects on tropical seedling regeneration – implications for vegetation under climate change*, Annual meeting of the Association for Tropical Biology and Conservation, Marburg, Germany, 2009

Symposium co-organizer, *Regeneration ecology across the tropics: cross-site comparisons of seed and seedling dynamics*, Association for Tropical Biology and Conservation annual meeting, Paramaribo, Suriname, 2008

Master's thesis external examiner, University of Canterbury, New Zealand, 2006

Abstract Reviewer and Session Chair, Annual symposium of the Center for Undergraduate Research Opportunities, University of Georgia, 2004

Vice-President, Botany Graduate Student Association, University of Georgia, 2002 – 2003

Coordinator, Plant Ecology Group, University of Georgia, 2001, 2003

PUBLIC OUTREACH

Invited talk on *How Forests Shape Climate and Climate Change is Shaping Forests*, Yale Alumni Academy Climate Change Conservations webinar series, 2021.

Television interview on the environmental impacts of the Amazon forest fires, *Good Morning Connecticut at Nine*, WTNH, New Haven, 2019

Tropical rainforest presentation, Worthington Hooker Elementary School, 1st grade (~50 students/year), New Haven, CT, 2018 & 2021

Volunteer Scientist for 'Kids Do Ecology' program for 5th grade students, Santa Barbara, CA, 2011

Research mentor, Francis Lewis High School Science Research Program, Queens, NY, 2009

Invited speaker, Careers in Biology, International School of Panama High School, Panama, 2007

Speaker and guide for private and corporate donors, tour groups, and visiting scientists at the Smithsonian Tropical Research Institute, Panama, 2006 – 2007

Volunteer guide for elementary school classes at Sandy Creek Nature Center, Athens, GA, 2001

Volunteer Educator, Inner-City Environmental Education Program, Philadelphia, PA, 1997 – 1998

PROFESSIONAL AFFILIATIONS

Ecological Society of America, Association for Tropical Biology and Conservation, Smithsonian Tropical Research Institute, Center for Tropical Forest Science-Forest Global Earth Observatories (ForestGEO)

LANGUAGES

English – native language; Spanish – speak, read, and write with high proficiency